Dear Principal, Superintendent and Board Members,

I recently came across the National Math and Science Initiative, a non-profit organization known as “nym SEE” that appears to be helping school systems across the country increase access and achievement in advanced education for all students.

According to students, parents, teachers and administrators, the partnership and resources from NMSI have led to great and lasting achievements in all types of schools.

As a taxpayer, I recognize that you must be prudent with how resources are spent. Based on what I’ve been able to learn, NMSI works with schools to effectively reallocate existing money used for such things as classroom materials, lab supplies and continuing professional development. The organization also helps find new sources of funds from government grants, local companies and philanthropies. Nearly all those grants provide additional money for the expenses listed above so there can be more professional development for principals, counselors and teachers and new supplies for students. There’s even the potential for additional subsidies for students who take the annual Advanced Placement exams.

I’m asking you to look at the materials I downloaded from NMSI and to schedule a call with the organization. I know that you’re busy and I know that you want the best education for all our students. I believe NMSI could help.

Sincerely,
Rethinking K-12 Education

NMSI transforms K-12 education by setting high standards, removing barriers, building on teachers’ strengths and ensuring all students have the access, resources and support they need to excel in rigorous math, science, English and computer science education.

NMSI learns community needs by working directly with district and campus leaders, counselors, teachers, students and families to introduce proven solutions and help guide the way toward lasting success.

“NMSI is much more than just an initiative. It truly represents a cultural shift that is providing students, especially students who are historically under-represented, access to high level courses and instruction.”

Tim Scott
Superintendent at Kiski Area School District, PA

“I feel very prepared. With the combination of NMSI and my supportive teachers, I feel like I can go far.”

Breanna Ramsey
Former Student at Cass Technical High School, MI

To date, NMSI’s programs have impacted:

2 Million Students
65,000+ Teachers
1,400+ High Schools
45+ Universities

Next Steps
Contact your NMSI representative or email customerservice@nms.org to learn more.

Equipping educators teaching grades 3-12 with classroom resources, hands-on training and best practices.

Supporting school systems by increasing access to high-quality, rigorous AP courses, especially for students furthest from opportunity.

Partnering with districts to launch and sustain a K-12 computer science program with evidence-based curricula.

Meeting the demand for qualified STEM teachers by creating multiple ways for subject experts to take on the classroom.

Visit STEMOpportunityIndex.com to see how your school, district and state are performing in more than 100 indicators of STEM success.
Unlocking student potential starts with great teachers. NMSI's *Laying the Foundation* gives teachers the resources they need to raise expectations and develop advanced levels of thinking and learning. Led by expert educators, LTF helps teachers build and maintain subject matter expertise, enhance their leadership of diverse classrooms, and prepare students to be confident and creative problem solvers.

### Available Training

LTF is offered in person and online. Summer 2020 trainings are online only. Learn more at [nms.org/SummerSeries](http://nms.org/SummerSeries).

**Grades 3–5**
- Math/Science
- English/Social Studies

**Middle School**
- English, Math, Science

**High School**
- English, Math, Biology, Chemistry

### Next Steps

Contact your NMSI representative or email [customerservice@nms.org](mailto:customerservice@nms.org) to learn more and get started.

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**Preventing for Success**

Unlocking student potential starts with great teachers. NMSI’s *Laying the Foundation* gives teachers the resources they need to raise expectations and develop advanced levels of thinking and learning. Led by expert educators, LTF helps teachers build and maintain subject matter expertise, enhance their leadership of diverse classrooms, and prepare students to be confident and creative problem solvers.

**Denise King**
Teacher at Maynard H. Jackson High School, Atlanta

“Laying the Foundation was phenomenal. I’ve learned how to scaffold, how to differentiate, how to teach the skills necessary for my students to find success.”

### Year One: Thinking About Learners

Teachers learn and practice delivering high-quality lessons while gathering feedback from other educators.

### Year Two: Thinking About Teaching

Teachers analyze and reflect on how they prepare and lead classes and learn best practices from expert teachers and other educators.

### Year Three: Choosing a Pathway

Coming in summer 2021: Teachers select the development path that suits their needs.

### 50K teachers trained in 1.8K districts across the country since 2009

**LTF-Trained Teachers See Results**

Grade 8 Students of LTF-trained teachers scored higher on ACT ASPIRE™ exams that their peers.1

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Computer Science for All Students

Whether students are headed to college, a trade or the military, computer science skills and dispositions are critical to their success. Yet CS education is lacking across the country and school systems with CS courses often struggle to reach all students, particularly those underrepresented in CS fields.

20% of students who took the AP Computer Science Exam in 2018 were Latino or African-American

27% of students who took the AP Computer Science Exam in 2018 were female

Source: College Board, 2018

The Opportunity

Combining the resources of eight proven CS curriculum providers, along with NMSI’s renowned training and support, you now can reap the benefit of multiple approaches to CS education while working with a single group dedicated to empowering success for your district and students.

- Partnership with NMSI to select the CS approaches that will drive success for your schools
- 12 months of support and training for teachers, school counselors and administrators – building district-wide capacity, cultures and mindsets that result in CS for All opportunities
- Evidence-based curricula for students
- Vertical team alignment across grade levels

Pathway Options

- **ScratchEd**
  - Integrates computational thinking across all disciplines with the visual programming language, Scratch
- **Project GUTS**
  - Integrates computer modeling and simulation into science classes to prepare students for future endeavors in STEM fields
- **Bootstrap: Algebra and Intro to Data Science**
  - Incorporates introductory programming and data science into existing math content to engage and excite students
- **MIT AppInventor’s Middle School Curriculum**
  - Allows students to build fully functional apps for smartphones and tablets in an intuitive, visual programming environment
- **NCWIT Counselors for Computing**
  - Provides professional school counselors with information and resources they can use to support ALL students as they explore CS education and careers
- **Exploring Computer Science**
  - Focuses on broadening participation in computing through a research-based intro-level computer science curriculum and teacher professional development
- **AP Computer Science Principles**
  - Beauty and the Joy of Computing explores the seven big ideas of CS Principles and the impacts of computing
  - Mobile CSP introduces students to the breadth of CS through the lens of mobile computing
  - UTeach CS Principles broadens participation in computer science through its Project-Based Learning course
- **Local Opportunities**
  - Allows for customization based on local context, such as added support for AP Computer Science A or connections with local STEM industries

Interested in learning more? Visit nms.org/CSforAllCommitment or email customerservice@nms.org.
Transforming Education

Through its flagship College Readiness Program, NMSI helps local school systems immediately increase access and achievement in STEM education while developing sustainable capacity to propel students toward success as lifelong learners and problem solvers. Together, we’re eliminating STEM Deserts to ensure all students have access to the STEM education they need and deserve.

35% \(\text{increase in college readiness*}\)

11.9K \(\text{AP teachers trained since 2007}\)

41% \(\text{increase in AP enrollment**}\)

*as defined by earning of 2, 3, 4 or 5 on a math, science or English AP exam from school year 2016-17 to 2018-19

**from school year 2016-17 to 2018-19

Increase In Mastery of College-Level Concepts from school years 2014-15 to 2018-19
(as defined by earning a 3, 4 or 5 on an AP exam)

Elements of Success

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<thead>
<tr>
<th>TEACHER SUPPORT</th>
<th>STUDENT SUPPORT</th>
<th>SCHOOL SUPPORT</th>
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<tbody>
<tr>
<td>Content-Specific Training</td>
<td>Focused Study Supports</td>
<td>Leadership Development</td>
</tr>
<tr>
<td>Coaching</td>
<td>AP Course Supplies</td>
<td>Performance Analysis</td>
</tr>
<tr>
<td>Online Curricular Resources</td>
<td>Exam Fee Subsidies</td>
<td>Goal Setting &amp; Accountability</td>
</tr>
</tbody>
</table>

Next Steps
Contact your NMSI representative or email customerservice@nms.org to learn more and apply.
Building on Success from Proven Programs

The National Math and Science Initiative began delivering online and blended (a mix of in-person and online) supports for teachers and students in 2018, using the foundations of our proven in-person training and study resources to reach more students and teachers now and in the future.

NMSI’s online and blended programs provide research-based teacher and student support, expand opportunities for schools in urban and rural districts and can support home learning. Regardless of location, teachers and students have access to an online community where they can seek guidance and build deep relationships. NMSI has a growing model to provide online and blended solutions that leverage rich content and best practices.

“Some people will give you a book and say, ‘Go learn it.’ [NMSI’s online coaches] are not just showing what they did, but also modeling how they did it so you can see it in action.”

— Shana Martin
AP® Chemistry Teacher | Jonesboro, GA

Additional School Support

**Dedicated program management** to set and reach ambitious goals for student access and achievement in rigorous courses, teacher training and leadership development.

**Resources** for classroom and lab

**Sustainment planning** to ensure long-lasting change and the development of students who are ready for success in college, career and community life.

Developing New Supports

Beginning in summer 2020, NMSI will evolve its highly regarded *Laying the Foundation* and *College Readiness Program* summer teacher trainings to blended delivery. The move expands support for teachers in grades 3-12 from four days a year to year-round without increasing operational costs.

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*AP® is a trademark registered by the College Board, which is not affiliated with, and does not endorse, this product.*
Empowering Local Leaders

School leaders have a critical role in building a culture that invites and challenges students traditionally underrepresented in Advanced Placement courses. School leaders are also integral in making sure adequate support is available so students are set up for academic achievement. NMSI’s College Readiness Program provides school leaders with essential tools for the growth and cultivation of AP programs, student achievement within these programs, and access to a network of like-minded leaders.

Advanced Academic Leadership Team

NMSI Program Managers meet regularly with leaders for strategic planning and dialogical coaching about best practices for increasing access to and success in college-level coursework. Leadership teams should include an administrator, counselor and other influential school leaders, such as teachers who are department chairs.

Partner School Director

School-level administrator who is the main liaison to NMSI Program Managers. Empowers leaders to create a culture of advanced academics for all students. Ensures strategic plans are moved into integration and sustainment.

Knowledge Management

Communicates up-to-date information about the NMSI program within the school and community, in addition to analyzing data to inform strategic actions.

Access Advocacy

Collaborates with teachers and students to remove barriers to AP coursework. Intentionally invites students to take rigorous classes.

Site Coordination

Certifies that teachers and students have access to NMSI resources.

Matriculation Management

Establishes a group that connects middle schoolers to AP students, college students and STEM professionals who can speak to increased opportunities through rigorous education. Counseling experience complements this workstream.

BUILDING THE TEAM

Based on Student Enrollment

- 0-349: 3 Team Members
- 350-749: 4 Team Members
- 750+: 5 Team Members

AVAILABLE TRAINING

July 2020: Online Learning Series — Leadership

NEXT STEPS

Contact your NMSI representative or email customerservice@nms.org to learn more and get started.
Serving Success

Military readiness today depends on mission-focused Service Members who trust their children’s schools. Readiness tomorrow will depend even more on Service Members with critical thinking, problem-solving and STEM-focused skills. NMSI’s Military Families Mission empowers military-connected communities to meet the needs and support readiness now and in the future.

We’ve collaborated with 250+ military-connected schools, supporting 100+ military installations, to achieve a 39% increase in college readiness¹ in math and science after just one year in our program.

¹as defined by receiving a 2, 3, 4 or 5 on a math or science AP exam; based on available data for school years 2016-17 through 2018-19

Increase In Mastery of College-Level Math and Science Concepts from school years 2014-15 to 2018-19 (defined by earning a 3, 4 or 5 on an AP math or science exam)

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<tr>
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<th>NMSI</th>
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<tbody>
<tr>
<td>ALL STUDENTS</td>
<td>86.4%</td>
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<tr>
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<td>STUDENTS</td>
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<td>AFTER ONE YEAR</td>
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<td>AFTER THREE YEARS</td>
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Partners + Donors

NMSI proudly joins forces with the Department of Defense and other donors and partners to further STEM education, including:

Next Steps

Contact your NMSI representative or email customerservice@nms.org with any questions.